Textbook Alignment to the Utah Core – 3rd Grade Mathematics

This alignment has been completed using an "In	•		
(www.schools.utah.gov/curr/imc/ii	ndvendor.html.) Yes < No	_	
Name of Company and Individual Conducting Alignment: _Stand	ard Media Services, LLC: David A. John	son	
A "Credential Sheet" has been completed on the above company/	evaluator and is (Please check one of the	following):	
✓ On record with the USOE.			
☐ The "Credential Sheet" is attached to this alignment.			
Instructional Materials Evaluation Criteria (name and grade of t	he core document used to align): Gra	de 3 Mathematics	
Title: _Houghton Mifflin Math ©2007: Grade 3	ISBN#: _	0-618-59093-5	
Publisher: Houghton Mifflin Company			
Overall percentage of coverage in the Student Edition (SE) and Te	eacher Edition (TE) of the Utah State	Core Curriculum: 100	%
Overall percentage of coverage in <i>ancillary materials</i> of the Utah			
Over an percentage of coverage in unculary materials of the Otan			
STANDARD I: Students will understand the base-ten numeration s whole numbers.	ystem, place value concepts, simple fi	ractions and perform operati	ons with
Percentage of coverage in the student and teacher edition for Standard I:	Percentage of coverage not in stude the ancillary material for Standard		vered in
Objectives & Indicators	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries

compi	tive 1.1: Represent whole numbers up to 10,000, rehend place value concepts, and identify relationships g whole numbers using base-ten models and symbolic on.		
a.	Read, write, and represent whole numbers using standard and expanded form.	SE/TE: 7, 10-11, 13, 17, 18-19, 20- 22, 24, 25, 66, 198, 433	
b.	Demonstrate multiple ways to represent numbers using models and symbolic representations (e.g., fifty is the same as two groups of 25, the number of pennies in five dimes, or 75 - 25).	SE/TE: 10-11, 47, 48-49, 52-55, 61, 65, 67, 73, 76-77, 82-85, 86-89, 96, 110-111, 116-117, 120-121, 123, 137, 141, 203, 208-209, 210, 212-213, 215, 216, 245, 260-261, 264, 281, 288-289, 298	
c.	Identify the place and the value of a given digit in a four- digit numeral and round numbers to the nearest ten, hundred, and thousand.	SE/TE: 18-19, 20-22, 24, 25, 27, 32-35, 36-37, 42, 43, 49, 67, 68, 70, 80, 121, 133, 140, 142, 423, 584	
d.	Order and compare whole numbers on a number line and use the symbols $<$, $>$, \neq , and $=$ when comparing whole numbers.	SE/TE: 1c, 28-29, 30-31, 35, 42, 43, 47, 66, 70, 73, 99, 131, 417	
e.	Identify factors and multiples of whole numbers.	SE/TE: 208, 210, 212, 216-217, 218, 224-225, 231, 232, 234, 236, 240, 242, 246, 250-251, 252-253, 256, 576, 580-581	
Objecthe wl	tive 1.2: Use fractions to describe and compare parts of nole.		
a.	Identify the denominator of a fraction as the number of equal parts of the unit whole and the numerator of a fraction as the number of equal parts being considered.	SE/TE: 494-495, 498-499, 500-501, 516, 517, 519, 532, 536	
b.	Define regions and sets of objects as a whole and divide the whole into equal parts using a variety of objects, models, and illustrations.	SE/TE: 494-495, 497, 498-499, 500-501, 502-505, 506-507, 508-509, 516, 517, 519, 524, 572	
c.	Name and write a fraction to represent a portion of a unit whole for halves, thirds, fourths, sixths, and eighths.	SE/TE: 494-495, 496-497, 500-501, 502-505, 516, 517, 519, 572	

d.	Place fractions on the number line and compare and order fractions using models, pictures, the number line, and symbols. Find equivalent fractions using concrete and pictorial	SE/TE: 520-521, 522-523, 531, 536, 537, 545, 558, 564, 565, 569, 570 SE/TE: 508-509, 510-511, 516, 517,	
	representations. etive 1.3: Model problems involving addition, subtraction, plication, and division.	519	
a.	Demonstrate the meaning of multiplication and division of whole numbers through the use of a variety of representations (e.g., equal-sized groups, arrays, area models, and equal jumps on a number line for multiplication, partitioning and sharing for division).	SE/TE: 202-203, 205, 206-207, 208- 209, 210-211, 212-215, 216, 218- 219, 224-225, 228, 229, 231, 232- 233, 234, 236-237, 240-241, 242- 243, 246-247, 250-251, 260-261, 262-263, 264-265, 266-267, 269, 270-271, 272, 278, 282, 283, 285, 286-287, 288-289, 290, 292, 296, 298, 304, 306, 310	
b.	Use a variety of strategies and tools, such as repeated addition or subtraction, equal jumps on the number line, and counters arranged in arrays to model multiplication and division problems.	SE/TE: 202-203, 205, 206-207, 208- 209, 210-211, 212-215, 216, 218- 219, 224-225, 228, 229, 231, 232- 233, 234, 236-237, 240-241, 242- 243, 246-247, 250-251, 260-261, 262-263, 264-265, 266-267, 269, 270-271, 272, 278, 282, 283, 285, 286-287, 288-289, 290, 292, 296, 298, 304, 306, 310	
c.	Demonstrate, using objects, that multiplication and division by the same number are inverse operations (e.g., $3 \times \square = 12$ is the same as $12 \div 3 = \square$ and $\square = 4$).	SE/TE: 264-265, 266, 269, 270, 272, 282, 283, 288-289, 290, 292-293, 295, 296, 304, 306, 310, 314, 315, 320, 324	
d.	whole numbers by 10.	SE/TE: 580-581, 587, 607	
е.	Write a story problem that relates to a given addition, subtraction, or multiplication equation, and write a number	SE/TE: 12, 39, 74, 80, 84, 88, 90-91, 92, 96, 99, 101, 104, 106, 111, 113,	

	sentence to solve a problem related to the students' environment.	114, 118, 121, 122, 125, 126, 129, 130, 135, 139, 142, 204, 209, 211, 214, 217, 221, 222, 225-226, 230, 235, 238, 241, 244, 247, 253, 254-	
		255, 256, 274-275, 313, 581, 583, 586, 590, 593, 595, 596, 600, 603-604	
and su	etive 1.4: Compute and solve problems involving addition abtraction of 3- and 4- digit numbers and basic facts of plication and division.		
a.	Use a variety of methods to facilitate computation (e.g., estimation, mental math strategies, paper and pencil).	SE/TE: 16, 77, 78-81, 83, 84, 88, 92, 96, 100-101, 102, 104, 105, 112-114, 115, 117, 118, 121-122, 123, 125-126, 127, 129, 132, 142, 222, 224-226, 247, 371, 385, 406, 456, 469, 526, 562, 580-581, 584-587, 602, 603-604, 606, 607, 610-611, 616-619, 630, 631, 632, 633, 638, 642	
b.	Find the sum or difference of numbers, including monetary amounts, using models and strategies such as expanded form, compensation, partial sums, and the standard algorithm.	SE/TE: 72-73, 75, 76-77, 78-81, 82- 85, 86-89, 94-97, 98-99, 100-101, 102-103, 104, 105, 107, 108-109, 110-111, 112-115, 116-119, 120- 123, 124-127, 128-129, 130-131, 132, 133, 137, 138-139, 142	
c.	Compute basic multiplication facts (0-10) and related division facts using a variety of strategies based on properties of addition and multiplication (i.e., commutative, associative, identity, zero, and the distributive properties).	SE/TE: 72, 76-77, 208-209, 210, 213, 224-226, 233, 234, 239, 240, 242, 252-253, 278-280, 282	

STANDARD II: Students will use patterns, symbols, operations, and properties of addition and multiplication to represent and describe simple number relationships.

	ntage of coverage in the <i>student and teacher edition</i> for ard II:	Percentage of coverage not in stude the ancillary material for Standard		vered in
Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
Objec	etive 2.1: Create, represent, and analyze growing patterns.			
a.	Create and extend growing patterns using objects, numbers, and tables.	SE/TE: 14-15, 22, 23, 29, 41, 69, 87, 89, 126, 210, 212, 214, 216, 218-219, 227, 232-233, 234, 237, 244, 246, 248, 250-251, 261, 262-263, 266-267, 270, 272, 280, 282, 283, 286-287, 290, 293, 296, 299, 308, 311, 320, 331, 333, 343, 361, 428-430, 431, 437, 438, 467, 580-581, 587, 590, 604, 610-611, 629		
b.	Describe how patterns are extended using manipulatives, pictures, and numerical representations.	SE/TE: 14-15, 22, 23, 29, 41, 69, 87, 89, 126, 210, 212, 214, 216, 218-219, 227, 232-233, 234, 237, 244, 246, 248, 250-251, 261, 262-263, 266-267, 270, 272, 280, 282, 283, 286-287, 290, 293, 296, 299, 308, 311, 320, 331, 333, 343, 361, 428-430, 431, 437, 438, 467, 580-581, 587, 590, 604, 610-611, 629		
	etive 2.2: Recognize, represent, and simplify simple er relationships using symbols, operations, and properties.			
a.	Represent numerical relationships as expressions, equations, and inequalities.	*Featured throughout the program; see sample citations below: SE/TE: 7, 37, 58, 68, 72-73, 88, 89, 94-96, 98, 99, 104, 105, 107, 109,		

		110, 116, 122, 126, 127, 170, 202-		
		203, 209, 210, 214, 217, 226, 235,		
		238, 239, 241, 245, 247, 252-253,		
		267, 273, 274-275, 281, 293, 307,		
		311, 593, 599, 610-611, 618, 621,		
		627, 630		
b.	Solve equations involving equivalent expressions (e.g., 6 + 4	SE/TE: 88, 89, 96, 103, 109, 111,		
	$=\Delta+7$).	226, 239, 245, 247, 274-275		
c.	Use the >, <, and = symbols to compare two expressions	SE/TE: 1c, 28-29, 47, 61, 65, 66, 68,		
	involving addition and subtraction (e.g., $4 + 6 \square 3 + 2$; $3 + 5$	70, 76, 88, 99, 103, 109, 122, 131,		
		238, 239, 241, 280-281, 291, 297,		
	□ 16 - 9).	417, 586, 593, 599, 618, 621		
d.	Recognize and use the commutative, associative,	SE/TE: 72, 76-77, 208-209, 210,		
	distributive, and identity properties of addition and	213, 224-226, 233, 234, 239, 240,		
	, , , , , , , , , , , , , , , , , , , ,			
	multiplication, and the zero property of multiplication.	242, 252-253, 278-280, 282		
STANI	multiplication, and the zero property of multiplication. DARD III: Students will describe and analyze attributes of two			
Perce				vered in
Perce Stand	DARD III: Students will describe and analyze attributes of two	wo-dimensional shapes. Percentage of coverage not in stude		Vered in Not covered in TE, SE or ancillaries ✓
Perce Stand Object	DARD III: Students will describe and analyze attributes of two stages of coverage in the student and teacher edition for lard III: 100 %	Percentage of coverage not in stude the ancillary material for Standard I	II:% Coverage in Ancillary Material	Not covered in TE, SE or
Perce Stand Object	DARD III: Students will describe and analyze attributes of tweentage of coverage in the student and teacher edition for lard III: 100 % CTIVES & INDICATORS Etive 3.1: Describe and compare attributes of two-	Percentage of coverage not in stude the ancillary material for Standard I	II:% Coverage in Ancillary Material	Not covered in TE, SE or
Perce Stand OBJEC Object dimen	DARD III: Students will describe and analyze attributes of two- ntage of coverage in the student and teacher edition for lard III: 100 % CIVES & INDICATORS Etive 3.1: Describe and compare attributes of two- nsional shapes. Identify, describe, and classify polygons (e.g., pentagons,	Percentage of coverage not in studenthe ancillary material for Standard I Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.) SE/TE: 410-411, 413, 418-421, 438,	II:% Coverage in Ancillary Material	Not covered in TE, SE or

438, 439, 488

SE/TE: 410-411, 424-427, 439

sides for the isosceles triangle, three equal sides for the

sides for the parallelogram, right angles for the rectangle,

equilateral triangle, right angle for the right triangle).

c. Identify attributes for classifying quadrilaterals (e.g., parallel

	equal sides and right angles for the square).			
d.	• • • • • • • • • • • • • • • • • • • •	SE/TE: 414-417, 422-423, 424-427, 438, 439, 442, 488		
	etive 3.2: Demonstrate the meaning of congruence through ing transformations.			
a.	Demonstrate the effect of reflection, translation, or rotation using objects.	SE/TE: 450-453, 458, 459, 488, 492		
b.	Determine whether two polygons are congruent by reflecting, translating, or rotating one polygon to physically fit on top of the other.	SE/TE: 442-443, 444-446, 447, 450-453, 458, 459, 488, 492		
STANI	DARD IV: Students will select and use appropriate units and	measurement tools to solve problems	S.	
	ntage of coverage in the <i>student and teacher edition</i> for ard IV:%	Percentage of coverage not in stude the ancillary material for Standard		vered in
Stand				Not covered in TE, SE or ancillaries
Object estimates	ard IV:%	the ancillary material for Standard Coverage in Student Edition(SE) and	IV:% Coverage in Ancillary Material	Not covered in TE, SE or
Object estimates	ard IV: 100 % CTIVES & INDICATORS Prive 4.1: Select and use appropriate tools and units to ate and measure length, weight, capacity, time, and	the ancillary material for Standard Coverage in Student Edition(SE) and	IV:% Coverage in Ancillary Material	Not covered in TE, SE or

c.		SE/TE: 368-369, 370-371, 372-375,		
	using pounds and ounces.	398, 399, 404, 408		
d.	,	SE/TE: 329, 330-331, 340-343, 350,		
	hours in a day, the number of days in a year, and the number	408, 644		
	of weeks in a year.			
e.	Describe perimeter as a measurable attribute of two-	SE/TE: 410, 462-463, 464-467, 472,		
	dimensional figures, and estimate and measure perimeter	473, 474-475, 482, 483, 485, 489,		
	with metric and customary units.	491, 492		
Objec	tive 4.2: Solve problems involving measurements.			
a.	Determine simple equivalences of measurements (e.g., 30	SE/TE: 330, 340, 360-362, 368-369,		
	inches = 2 feet and 6 inches; 6 cups = $1\frac{1}{2}$ quarts; 90 min. = 1	370-371, 372-375, 378, 379, 383,		
	hr. 30 min.).	384-385, 386-388, 396, 397, 398,		
	,	399, 401, 402, 403, 405, 501, 631,		
		644		
b.	Compare given objects according to measurable attributes	SE/TE: 356, 360, 363, 364-365, 369,		
~~	(i.e., length, weight, capacity).	370-371, 372-373, 378, 396, 480		
c.		SE/TE: 410, 462-463, 464-467, 469,		
	Sorre proorems involving permitter.	472, 473, 474-475, 482, 483, 485,		
		489, 491, 492		
d.	Determine elapsed time in hours (e.g., 7:00 a.m. to 2:00	SE/TE: 336-338, 339, 359, 401, 408,		
u.	p.m.).	481		
	p.iii.).	461		
STANI	DARD V: Students will collect and organize data to make pre	dictions and identify basic concepts of	f probability.	
Percentage of coverage in the student and teacher edition for Standard V: 100 %		Percentage of coverage not in stude the ancillary material for Standard		vered in
-				Not covered
	CTIVES & INDICATORS	Coverage in Student Edition(SE) and	Coverage in Ancillary Material	in TE, SE or
ORJE	LIIVES & INDICATURS	Teacher Edition (TE) (pg #'s, etc.)	(titles, pg #'s, etc.)	ancillaries 🗸
Objec	tive 5.1: Collect, organize, and display data to make			
predic	ctions.			

a.	Collect, read, represent, and interpret data using tables,	SE/TE: B1, 6, 7, 8, 10, 12, 16, 17,	
	graphs, and charts, including keys (e.g., pictographs, bar	18, 19, 20, 22, 23, 26, 27, 28, 30, 31,	
	graphs, frequency tables, line plots).	32, 33, 35, 36, 38-41, 42, 44, 46, 49,	
		56-57, 59, 62, 67, 69, 74, 106, 112,	
		114, 118, 119, 135, 139, 141, 144,	
		146-147, 148-149, 150-153, 154-	
		157, 158-161, 162-163, 164-167,	
		168-171, 172, 173, 174-175, 178-	
		180, 184-186, 190, 191, 193, 194,	
		196, 197, 204, 207, 210, 212, 214,	
		215, 216, 218, 219, 220, 221, 222,	
		223, 226, 230, 232, 234, 237, 244,	
		246, 248, 250-251, 253, 255, 258,	
		261, 262-263, 266-267, 269, 270,	
		272, 276, 280, 283, 284, 286, 290,	
		293, 294, 296, 299, 302, 303, 308,	
		311, 323, 328, 329, 330, 335, 339,	
		340-343, 344-345, 346-349, 352,	
		353, 355, 356, 357, 358, 360-363,	
		366, 367, 368, 370-371, 372, 374,	
		380, 381, 382-383, 386, 389, 392,	
		394, 403, 404-405, 406-407, 420,	
		430, 431, 434, 462-463, 477, 491,	
		503, 504, 511, 512-513, 520, 522,	
		526, 538, 543, 547, 551, 552, 553,	
		559, 560, 561, 562, 571, 584, 586,	
		590, 596, 597, 601, 604, 608, 613,	
		618, 629, 630, 635, 637, 644, 648,	
		673, 677, 679	
b.	Make predictions based on a data display.	SE/TE: 174, 181, 184-186, 191, 197	
"	ctive 5.2: Objective 2: Identify basic concepts of ability.		

a.	\mathcal{S}	SE/TE: 175, 176-177, 178, 180,	
	"likely," "unlikely," and "impossible."	185-187, 189, 190, 191	
b.	Conduct simple probability experiments, record possible	SE/TE: 174, 178-181, 184-186, 188-	
	outcomes systematically, and display results in an organized	189, 191, 199	
	way (e.g., chart, graph).		
c.	Use results of simple probability experiments to describe the	SE/TE: 174, 178-181, 182-183, 184-	
	likelihood of a specific outcome in the future.	186, 187, 188-189, 190, 191, 197,	
		199, 407	